CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

ORDER NO. 82-43

CLOSURE REQUIREMENTS FOR:

CITY OF DALY CITY AND DALY CITY SCAVENGER COMPANY CLASS II-2 SOLID WASTE DISPOSAL SITE SAN MATEO COUNTY

The California Regional Water Quality Control Board San Francisco Bay Region, (hereinafter called the Board) finds that:

- 1. The City of Daly City owns a site formerly operated by the Daly City Scavenger Company as a Class II-2 solid waste disposal site. The City of Daly City and the Daly City Scavenger Company are hereinafter called the discharger. The site is located adjacent to the Pacific Ocean, opposite and north of Mussel Rock as shown in attachment 'A' of this Order. The site ceased accepting municipal refuse on February 15, 1978 pursuant to Waste Discharge Requirements Order No. 77-6 and Cease and Desist Order No. 77-119.
- 2. On January 18, 1977, this Board adopted Order No. 77-6 prescribing waste discharge requirements for the disposal of Group 2 wastes site closure specifications, and compliance time schedules for site closures.
- 3. In a letter dated June 22, 1977, the discharger submitted a closure plan for the landfill in accordance with Order No. 77-6. The plan was subsequently amended on September 1977, October 1977, July 1978. The site was closed according to the amended plan. Closure tasks were completed but the site has not been adequately maintained.
- 4. The site is underlain by Merced formation of Upper Pliocene Age consisting generally of partially cemented silty fine sands or poorly consolidated sandstones and claystones. The poorly consolidated Merced formation rests unconformably over the Franciscan formation, comprised of basalt and greenstone. The site is traversed by the San Andres Fault, which is one of the most active faults in California.
- 5. The site is located on a major landslide area consisting of a older, primary slide which resulted in the prominent drop in the central portion of the site and a series of secondary slides formed in steep, unstable scarps along the crown perimeter of the primary slide and along the cliffs fronting the ocean beach which have been undercut by erosion from wave action. The site has a history of both vertical movement and lateral movement towards the ocean, with some areas having moved several feet in a single year. Slide conditions have resulted in the abandonment by Cal-Trans, of a portion of Highway 1, which formerly traversed the area, and the removal by the developer of several homes along the southern boundary of the site. No modifications have been proposed which offer reliable

long-term assurance that these conditions can be corrected. It is expected that this constant movement will continue to present difficulties in properly maintaining this site.

- 6. The refuse deposited at this site has the potential to adversely effect water quality and will have this potential at least until decomposition of the refuse has occured.
- 7. The discharger is in the process of increasing the height of the northern extension of the sea-wall. This extension is necessary to protect the lower north slope which does not contain refuse from being under cut by wave action. Maintenance of this lower north slope is essential in maintaining the stability of the refuse in the upper north canyon which is above the lower north slope.
- 8. The beneficial use of Pacific Ocean are:
 - a. Habitat for fish and other marine organisms
 - b. Ocean commercial and sport fishing
 - c. Recreation
 - d. Esthetic enjoyment
 - e. Navigation
 - f. Industrial water supply
- 9. The land within 1000 feet of the site is used for residential purposes and general open space.
- 10. The discharger is presently governed by Waste Discharge Requirements Order No. 77-6 adopted on January 18, 1977 most of which is no longer applicable.
- 11. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975 and this Order implements the Water Quality Objectives stated in that Plan.
- 12. This Board has notified the dischargers and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
- 13. The Board, in a public meeting heard and considered all comments pertaining to the discharge.
- 14. This project involves the closure of a publicly owned Class II-2 waste disposal facility consisting of the repair, maintenance and minor alteration of structures and topographic features involving negligable or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment pursuant to the exemption provided in Section 15101, Title 14, California Administrative Code.

IT IS HEREBY ORDERED that the City of Daly City, the Daly City Scavenger Company and any other person who owns this site, shall comply with the following.

A. Prohibitions

1. No group 1 or additional group 2 wastes shall be stored or desposited on this site.

B. Site Closure Specifications

- 1. All completed disposal areas shall be maintained with a final cover of at least three feet of clean soil. At least one foot of the final cover shall be compacted to attain a permeability equivalent to no greater than 1×10^{-6} cm/sec. Exceptions to this requirement may be granted by the Board upon a demonstration that equivalent protection against water penetration may be provided by other means.
- 2. Completed disposal areas shall be maintained to prevent ponding and to provide slopes of at least three percent except where incompatible with park use (i.e., play fields), in which case grade shall be not less than 2 percent. Areas subject to erosion shall be designed and maintained to prevent such erosion.
- 3. Slopes within the disposal area and below the Upper North Canyon area shall be maintained in such a manner as to minimize the potential for sliding by control of grades, drainage, or other means. Any slides observed within the disposal area and below the Upper North Canyon area shall be promptly stabilized, and the Regional Board shall be notified immediately upon discovery of a slide.
- 4. The existing sea wall and sea wall extension, now under construction shall be maintained at least one foot above the elevation of the highest expected tide including storm wave action and in adequate condition to prevent site erosion due to wave action and the deposition of any refuse in waters of the State due to erosion or slides.
- 5. Access to all portions of the site shall be maintained at all times to allow for immediate corrections of slides, drainage problems or erosion of cover material.

C. Leachate and Drainage Specifications

- 1. The disposal area(s) shall be protected from any washout or erosion and from inundation, which could occur as a result of tides, rainfall and/or floods having a predicted frequency of once in 100 years. The sea wall, all drainage ditches and all other facilities shall be designed and maintained to convey maximum anticipated storm runoff and to withstand the effects of differential settlement.
- 2. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through Group 2 wastes deposited on the site.

- 3. All necessary facilities shall be provided and maintained to ensure that leachate from group 2 waste, ponded water containing leachate or any polluted water are not discharged to ground water or surface waters of the State.
- 4. The migration of methane gas from the disposal site shall be controlled as necessary to prevent the creation of any nuisance. Exceptions to this requirement may be granted upon demonstration by the discharger that methane generation does not threaten to create a nuisance, based on site location, climatic conditions or other natural conditions.

D. Provisions

- 1. The discharger shall submit a maintenance plan for the disposal site acceptable to the Executive Officer within 120 days after adoption of this Order. The maintenance plan shall be reviewed and updated by September 1 of each year. A report shall be submitted by September 15 of each year to the Board documenting this annual review and indicating what changes were made. The maintenance plan shall include but need not be limited to: a time schedule and procedures to inspect the drainage system, the sea wall, and slopes of the disposal area and the area below the Upper North Canyon for any erosion or slippage; routine maintenance procedures which will be taken to prevent and stablize surface slides, control the inflow of water from off-site, control methane migration, control leachate production, protect the sea wall and maintain the drainage system and the all weatherroads; and a re-evaluation of the erosion control plan which shall include maintenance measures and time schedules for repair and/or replacement of soil and vegetative cover.
- 2. The discharger shall submit a contingency plan acceptable to the Executive Officer within 120 days after adoption of this Order. The contingency plan shall be reviewed and updated by September 1 of each year. A report shall be submitted by September 15 of each year to the Board documenting this annual review and indicating what changes were made. The contingency plan shall include, but need not be limited to: methods of containment and cleanup of waste exposed or displaced in the event of site failure as a result of an earthquake, excessive rainfall, tidal action or other occurrence.
- 3. The discharger shall demonstrate the availability of budgeted funds, and the adequacy of the funds for site maintenance and contingency actions. This demonstration shall be submitted as part of the maintenance and contingency plans by Sept. 15 of each year.
- 4. The site shall be maintained in accordance with this Order.
- 5. The discharger shall comply with all Specifications and Prohibitions of this Order immediately.

- 6. All reports described in C.A and D.1 above shall be prepared under the direction of and signed by a registered engineer or a certified engineering geologist.
- 7. This Board considers the current property owners or any new owner to have a continuing responsibility for correcting any problems associated with this solid waste disposal site during subsequent use of the land for other purposes.
- 8. The discharger shall notify this Board in writing of any proposed change in ownership of this site. The current owners shall notify and provide a copy of this Order to any subsequent owner of this property or portion thereof prior to sale and submit documentation to the Board that the new owner is aware of this Order.
- 9. The discharger shall file with the Board any monitoring program which may be directed by the Executive Officer.
- 10. The discharger shall permit the Regional Board or its authorized representatives in accordance with California Water Code Section 13267 (c).
 - a. Entry upon premises on which waste are located or in which any required records are kept,
 - b. Access to copy any records required to be kept under terms and conditions of this order,
 - c. Inspection of monitoring equipment or records, and
 - d. Sampling of any discharge.

I, Fred H. Dierker, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 21, 1982.

FRED H. DIERKER Executive Officer

Attachments:

A- Map

B- Resolution 77-7

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board. (See APPENDIX E.)

1. Laboratory Analysis

Water and waste analyses shall be performed by a laboratory currently or previously approved for these analysis by the State Department of Health. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

The Regional Board will accept analytical data from an in-house Laboratory which is not currently certified by the State Department of Health Services, if the discharger agrees in writing to: (1) perform all analyses in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" by the United States Environmental Protection Agency; (2) implement and maintain a quality assurance program comparable to State Department of Health Services standards and acceptable to the Executive Officer; (3) document a good agreement in analytical results with those of a certified laboratory in split sample analysis; and (4) become certified within a reasonable time when an appropriate State certification program is implemented.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The discharger is required to perform observations, sampling, and analyses according to the schedule in Part B.

E. RECORDS TO BE MAINTAINED

- 1. Written reports shall be retained by the discharger(s) for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:
 - a. Identity of sampling and observation stations by number.
 - b. Date and time of sampling and/or observations.
 - c. Date that analyses are started and completed, and name of personnel performing the analyses.
 - d. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to specific section of Standard Methods is satisfactory.
 - e. Results of analyses and/or observations.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Written self-monitoring reports shall be filed quarterly (unless specified otherwise in Part B). In addition, an annual report shall be filed as indicated in F-1-f. The reports shall be comprised of the following.

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirements violations found during the past months and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's

knowledge the report is true and correct.

Monitoring reports shall be signed as follows:

- (1) In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates,
- (2) In the cse of a partnership, by a general partner, or
- (3) In the case of a sole propietorship, by the proprietor,
- (4) In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected officer, or other duly authorized employee.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared using the example shown in APPENDIX B.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis or observations specified in <u>Part B</u> by date, time, type of sample, and station, signed by the laboratory director. The report format will be prepared using the examples shown in APPENDIX B.

e. List of Approved Analyses

List of analyses performed for the discharger by another approved laboratory currently or previously approved by the State Department of Health Service (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

f. Annual Reporting

By January 31 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain both tabular and graphic summaries of the monitoring data obtained during the

previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX B and should be maintained and submitted with each regular self-monitoring report.

PART B

DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING ANALYIS AND OBSERVATIONS

A. ON-SITE OBSERVATIONS

Station*	Description
P…l thru P— [†] n [†]	Observations keyed to stations located at equidistant intervals not exceeding 250 feet along the seawall and access roads.
Station	Frequency of Observations Observations
all P stations	Quarterly from June 1. Evidence of seawall deterioration monthly from October 1 2. Evidence of access road through May 31., and immediately following major storms. Report quarterly.
Station	Description
S-1 thru S-'n'	On-site observations keyed to stations located on 150° grid squares on flat areas and 150° linear along benches within the disposal area.
Station	Frequency of Observations Observations
All S* stations	Monthly from June 1 through September 30, biweekly from October 1, 2. Evidence of erosion or through May 31. Report monthly. 3. Evidence of mass slippage or failure. 4. Evidence of day-lighted refuse. 5. Evidence of odors, presence or absence, characteristics, intensity, source and distance of travel. 6. Evidence of water or leachate entering or leaving the disposal site, and estimated size of affected area.

^{*} The discharger shall submit to this offfice for approval a map showing proposed locations for the P and S stations by November 10, 1982.

A report shall be made by telephone of <u>any</u> slide or slope failure and seawall deterioration immediately after occurrence. A written report shall be filed with this Board within ten days and shall contain the following information: (1) Map showing location(s) of slide(s), or slope failure or seawall deterioration (2) amount of damage (3) corrective measures undertaken (4) any refuse discharged to the adjacent beaches, and (5) removal and off-site disposal location of displaced refuse.

Description

B. SEEPAGE AND/OR LEACHATE MONITORING

Station

L-1 thru L-'n'	disposal area. Incl of discharge(s). Di spring water may be upon demonstration c	At each point at which discharge occurs from the disposal area. Include a map indicating locations of discharge(s). Discharges which are exclusively spring water may be excepted from this requirement upon demonstration of the water quality of the discharge. An annual demonstration may be required.								
Station	Type of Sample and Frequency	Analyses	Units							
All L Stations	Grab sample at each initial discovery and weekly thereafter until corrected.	TOC D.O. Dissolved sulfide Odors Color pH Conductivity	mg/l mg/l mg/l description description electrometric units micromhos/cm							

A report shall be made by telephone of any seepage or leachate leaving the disposal area immediately after occurrence. A written report shall be filed with this Board within five working days and shall contain the following information: (1) map showing location(s) of discharge (2) approximate flow rate (3) nature of effect (i.e. discoloration of receiving water, size of affected area and color) (4) the method or means of taking measurements and making flow determinations and (5) corrective measures undertaken.

C. SURFACE GROUND MOVEMENT MONITORING

The movement of the ground surface shall be monitored by means of periodic surveys of surface monuments. Such monuments shall be installed in a line parallel to the shore and above the seawall road in order to prevent any distortion of measurements due to wave action against the seawall, and along the lower edge of the fill area known as the upper North Canyon. Several monuments shall be set in concrete in active areas of the site, and below the upper North Canyon area, and periodically surveyed for both horizontal and vertical movement by a licensed land surveyor. The proposed locations of the monuments and the control monument and rationale for their placement shall be submitted to the Board by January 15,11982, for approval by the Executive Officer. Monument installation and the initial survey shall be completed within 2 months of approval of the proposed monument location.

Surface ground movement shall be measured and reported semi-annually for two years, and annually in subsequent years. The reports shall be in the form of a running log to include the following:

- a. Horizontal and vertical movement of each monument
- b. Comparison to past movement
- c. Evaluation of the movement in the context of site stability

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Waste Discharge Requirements Order No. 82-43 and the California Administrative Code.
- 2. Has been ordered in writing by the Executive Officer on the date ordered below and becomes effective immediately.
- 3. May be reviewed at any time subsequent to the effective date upon written notice from either the Executive Officer or the discharger, and will be revised upon written agreement of the Executive Officer and the discharger.

FRED	Н.	DΙ	ERKER	
Execu	ativ	/e	Office.	1

Date Ordered

REPORT SELF-MONITORING PROGRAM

SANITARY LANDFILL CALIFORNIA

REPORTING PERIOD through

Submitted by

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COMPLIANCE SUMMARY

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Note: (1) 0/4 means that on 4 weekly inspections the parameter was not exceeded at any time.

(2) 1/4, 2/4, 3/4, 4/4 means that on 4 weekly inspections the parameter was exceeded once, twice, etc.

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LEACHATE MONITORING

Loçation (keyed to map)					,
Flow Rate (gr	Flow Rate (gpm)				
Date started -	Date started - stopped			·	
Appearance*	Color				
	Intensity				
,	ANALYSIS - all mg/l except pH				
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^{*} Color intensity: CU Units